

09447000 EAGLE CREEK ABOVE PUMPING PLANT, NEAR MORENCI, AZ

LOCATION--Lat 33°03'52", long 109°26'30", in SW₁/SE₁/SE₁/4 sec. 23, T.4 S., R.28 E., Greenlee County, Hydrologic Unit 15040005, on right bank 2 mi upstream from Phelps Dodge Corp. pumping plant, 5 mi west of Morenci, and 12 mi upstream from mouth.

DRAINAGE AREA--622 mi².

PERIOD OF RECORD--Apr. 1944 to current year.

REVISED RECORDS--WSP 1850-C: 1966. WDR AZ-88-1: Drainage area.

GAGE--Water-stage recorder. Datum of gage is 3,673.5 ft above sea level. Oct. 25, 1984, to Mar. 6, 1986, at site 1 mi upstream at datum 24.1 ft higher. Prior to Oct. 25, 1984, at various sites within 1 mi upstream from present site at different datums. Aug. 23, 1950, to Aug. 1, 1981, and since Mar. 6, 1984, supplementary gages at various sites within 1 mi upstream from present site at different datums. Feb. 7, 1993, to July 2, 1993, on right bank at different datum.

REMARKS--Records good, except estimated daily discharges, which are poor. Diversions above station for irrigation of about 500 acres, mostly above Willow Creek. Water from Black River was pumped into Eagle Creek basin, 52 mi upstream from this station, and water was pumped from wells into Eagle Creek near Double Circle Ranch below Willow Creek. The monthly quantities pumped are shown in the table below. Diversion by pumping for industrial and municipal use in and near Morenci and Clifton are made from Eagle Creek, 3 mi downstream from this station and from San Francisco River near Clifton. Monthly quantities diverted are shown in the table below.

AVERAGE DISCHARGE (unadjusted)--59 years, 66.3 ft³/s, 48,000 acre-ft/yr; median of yearly mean discharges, 31 ft³/s, 25,751 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 36,800 ft³/s Jan. 18, 1993, on basis of slope-area measurement; minimum, 2.9 ft³/s June 25, 1982.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 800 ft³/s and (or) maximum (*):

	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
	Jan. 4	1030	1,130	5.42
	Feb. 12	1553	*11,500	*10.78a
	Feb. 20	1200	2,690	6.61

Minimum daily discharge, 14 ft³/s, July 4-6.

a-from floodmark

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	19	19	45	75	114	35	33	23	16	24	16
2	18	19	18	37	69	103	34	31	22	16	20	18
3	18	19	17	41	65	97	36	31	21	15	21	23
4	17	19	18	583	61	93	38	29	21	14	29	27
5	17	19	21	307	58	89	38	28	20	14	31	35
6	17	19	27	162	54	87	35	27	20	14	29	27
7	17	20	29	114	50	87	35	27	20	16	27	24
8	17	25	25	94	49	85	35	27	19	17	38	29
9	16	23	23	85	51	82	34	26	19	17	37	25
10	17	21	21	77	50	79	36	27	19	17	32	23
11	18	18	20	71	475	76	35	25	19	16	28	34
12	18	17	20	71	66940	74	34	25	19	16	24	26
13	18	17	19	72	2570	72	33	26	19	16	28	20
14	17	17	19	65	545	71	33	25	18	17	26	17
15	18	16	19	59	236	69	32	24	18	18	77	15
16	17	17	19	48	174	66	32	24	17	18	57	15
17	17	18	42	148	64	33	23	16	18	33	17	
18	18	17	18	41	141	63	31	23	16	20	26	17
19	18	16	19	39	506	62	31	23	17	24	23	17
20	18	16	19	35	1620	62	31	21	17	22	22	17
21	18	16	19	34	747	63	29	21	16	21	24	16
22	20	22	19	33	278	62	29	20	16	21	23	16
23	20	34	19	31	206	60	29	19	17	25	25	17
24	20	31	19	31	174	59	37	19	19	29	28	18
25	19	28	18	30	158	57	41	18	22	38	23	18
26	21	24	17	31	162	56	40	18	20	36	21	17
27	24	21	17	35	157	54	36	18	19	35	19	17
28	21	20	18	109	133	52	35	20	19	33	17	17
29	20	19	19	101	---	50	35	31	18	29	16	17
30	19	19	24	88	---	49	37	30	17	24	16	18
31	19	---	51	80	---	41	---	26	---	25	15	---
TOTAL	570	605	648	2691	15952	2198	1029	765	563	657	859	613
MEAN	18.4	20.2	20.9	86.8	570	70.9	34.3	24.7	18.8	21.2	27.7	20.4
MAX	24	34	51	583	6940	114	41	33	23	38	77	35
MIN	16	16	17	30	49	41	29	18	16	14	15	15
AC-FT	1130	1200	1290	5340	31640	4360	2040	1520	1120	1300	1700	1220
CFSM	0.03	0.03	0.03	0.14	0.92	0.11	0.06	0.04	0.03	0.03	0.04	0.03
IN.	0.03	0.04	0.04	0.16	0.95	0.13	0.06	0.05	0.03	0.04	0.05	0.04
(*)	194	0	0	0	0	0	0	110	243	488	1130	728
(**)	780	512	430	570	730	761	757	784	798	980	1072	765

CAL YR 2004 TOTAL 8487.8 MEAN 23.2 MAX 74 MIN 8.8 AC-FT 16840 CFSM 0.04 IN. 0.51
WTR YR 2005 TOTAL 27150 MEAN 74.4 MAX 6940 MIN 14 AC-FT 53850 CFSM 0.12 IN. 1.62

(*) Pumpage, in acre-feet, into Eagle Creek from Eagle Creek wells.

(**) Pumpage, in acre-feet, into Clifton-Morenci, from San Francisco River and Eagle Creek

e Estimated